PATENT
Atty. Dkt. APPM/005191,C1(Y1)/ISM/CORE/MCVD/PJS
Serial No. 10/792,323

In the Claims:

Please cancel claims 11, 18, and 20, without prejudice, and add new claim 21 as follows:

1. (Currently Amended) An apparatus for vaporizing a solid precursor, comprising:

a housing defining having an interior volume having and an inlet for receiving a carrier gas, wherein the interior volume is configured to receive a solid chemical precursor; and

at least two surfaces contained in the housing, wherein <u>each of</u> the at least two surfaces <u>comprise a heating element</u> have the solid procursor applied thereto and are spaced to allow <u>passage flow</u> of the carrier gas therebetween; and at least one heating member contained in the housing, wherein the inlet is substantially perpendicular to the at least two surfaces.

- 2. (Original) The apparatus of claim 1, wherein the apparatus further comprises an outlet operably connected to a reaction chamber of a deposition chamber.
- 3. (Currently Amended) The apparatus of claim 2, wherein the at least two surfaces are selected from the group consisting of a baffle, a rod, a mesh, and a grating.
- 4. (Currently Amended) The apparatus of claim 1, wherein the at least two surfaces have a form selected from the group consisting of an s-shape, a linear shape, and a cone shape.
- 5. (Currently Amended) The apparatus of claim 3, wherein the at least two surfaces comprise are formed of a material selected from the group consisting of stainless steel and or ceramic.
- 6. (Currently Amended) The apparatus of claim 2, wherein the deposition

PATENT
Attv. Dkt. APPM/005191.C1(Y1)/ISM/CORE/MCVD/PJS

chamber is selected from the group consisting of <u>an atomic layer deposition</u> ALD chamber, <u>a chemical vapor deposition</u> CVD chamber, and <u>an</u> evaporative coating chamber.

- 7. (Original) The apparatus of claim 6, wherein the solid precursor includes a tantalum-containing precursor or a tungsten-containing precursor.
- 8. (Currently Amended) An apparatus for vaporizing a solid precursor, comprising:

a housing defining having an interior volume, wherein the interior volume is configured to receive a solid chemical precursor, having

an inlet for receiving a carrier gas; and

an outlet for delivering the carrier gas and a vaporized solid precursor, wherein the vaporized solid precursor originates originating from the solid chemical precursor;

a first wall to support the inlet;

at least ene-surface two surfaces contained in the housing for application of the solid precursor, wherein the at least one surface is located on a second wall adjoining and substantially perpendicular to the first wall and the at least one surface is spaced to allow passage of the carrier gas; and

a heating member contained in each of the at least two surfaces housing.

- 9. (Original) The apparatus of claim 8, wherein the outlet is operably connected to a reaction chamber of a deposition chamber.
- 10. (Currently Amended) The apparatus of claim 9, wherein the at least <u>two</u> <u>surfaces are</u> <u>one-surface</u> is selected from the group consisting of a baffle, a rod, a mesh, and a grating.
- 11. (Cancelled)

PATENT Atty. Dkt. APPM/005191.C1(Y1)/ISM/CORE/MCVD/PJS Serial No. 10/792.323

- 12. (Currently Amended) The apparatus of claim 9, wherein the at least <u>two</u> <u>surfaces have</u> <u>ene-curface has</u> a form selected from the group consisting of an s-shape, a linear shape, and a cone shape.
- 13. (Currently Amended) The apparatus of claim 12, wherein the at least two surfaces comprise one surface is formed of a material selected from the group consisting of stainless steel and or ceramic.
- 14. (Currently Amended) The apparatus of claim 9, wherein the deposition chamber is selected from the group consisting of <u>an atomic layer deposition</u> ALD chamber, <u>a chemical vapor deposition</u> CVD chamber, and <u>an</u> evaporative coating chamber.
- 15. (Original) The apparatus of claim 14, wherein the solid precursor includes a tantalum-containing precursor or a tungsten-containing precursor.
- 16. (Currently Amended) An apparatus for vaporizing a solid <u>tantalum-containing</u> precursor, comprising:

a housing defining comprising an interior volume; having an inlet for receiving a carrier gas; and

an outlet for delivering the carrier gas and a vaporized solid precursor, wherein the vaporized solid precursor originates from the solid <u>tantalum-containing</u> precursor;

at least two surfaces contained in the housing, wherein the at least two surfaces are configured to heat have the solid tantalum-containing precursor applied therete and are spaced to allow passage of the carrier gas therebetween; and

at least one heating member contained in at least one wall of the housing, wherein the outlet is operably connected to a reaction chamber of a deposition chamber.

17. (Currently Amended) The apparatus of claim 16, wherein the at least two

PATENT
Any. Dkt. APPM/005191.C1(Y1)/ISM/CORE/MCVD/PJS
Serial No. 10/792,323

surfaces is are independently selected from the group consisting of a baffle, a rod, a mesh, and a grating.

- 18. (Cancelled)
- 19. (Currently Amended) The apparatus of claim 18 16, wherein the deposition chamber is selected from the group consisting of an atomic layer deposition ALD chamber, a chemical vapor deposition CVD chamber, and an evaporative coating chamber.
- 20. (Cancelled)
- 21. (New) An apparatus for vaporizing a solid tantalum-containing precursor, comprising:
- a housing having an interior volume configured to receive the solid tantalum-containing precursor;
 - an inlet for receiving a carrier gas;
- at least two baffles in thermal communication with the solid tantalumcontaining precursor, the at least two baffles spaced to allow passage of the carrier gas;
- an outlet for delivering the carrier gas and a vapor originating from the solid tantalum-containing precursor, the outlet operably connected to an atomic layer deposition chamber; and
 - a heating member contained in each of the at least two baffles.